

# **G&K Automotive Conversion, Inc.**

2530 South Birch Street Santa Ana, CA 92707

Phone (714) 545-9503 FAX (714) 545-7667

January 27, 2020

TO: Dave Good  
U.S. Environmental Protection Agency  
MVECP  
2565 Plymouth Road  
Ann Arbor, MI 48105

From: Sosi Bardakjian  
G & K Automotive Conversion, Inc.  
2530 S. Birch Street  
Santa Ana, Ca 92707  
Phone (714) 545-9503 ext 22  
Fax (714) 545-7667

Dear Mr. Good,

Please find enclosed an application for a 2018 G650. This is a new application for the 2018 Model Year in 2020 certification year. I have enclosed copies of the fee filing form and the check submitted to the bank. Please contact me if you need further information.

Thank You



Sosi Bardakjian

# **G&K Automotive Conversion, Inc.**

2530 South Birch Street Santa Ana, CA 92707

Phone (714) 545-9503 FAX (714) 545-7667

## **APPLICATION FOR CERTIFICATION**

2020 MODEL YEAR

(LDV)

ENGINE FAMILY LG1XT06.0MBZ

EVAPORATIVE FAMILY LG1XR0170LNF

**CARLINES**

**2018 MERCEDES BENZ G650 MAYBACH**

**ORIGINALLY PRODUCED IN**

**2018**

**BY**

**MERCEDES BENZ**

**ICI**

**G&K Automotive Conversion, Inc.**

**DATE 01/27/2020**

# **G&K Automotive Conversion, Inc.**

2530 South Birch Street Santa Ana, CA 92707

Phone (714) 545-9503 FAX (714) 545-7667

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# **G&K Automotive Conversion, Inc.**

2530 South Birch Street Santa Ana, CA 92707

Phone (714) 545-9503 FAX (714) 545-7667

## III. Communication

### A. Mailing Information

G&K Automotive Conversion, Inc.  
2530 South Birch Street  
Santa Ana, CA 92707

### B. Corporate Official:

Mr. George Gemayel  
President  
G&K Automotive Conversion, Inc.  
TEL: (714) 545-9503 ext 11  
FAX (714) 545-7667  
Email: [george@gnkauto.com](mailto:george@gnkauto.com)

### C. Certification Questions:

Ms. Sosi Bardakjian  
G & K Automotive Conversion, Inc.  
2530 S. Birch Street  
Santa Ana, Ca 92707  
Phone (714) 545-9503 ext 22  
Fax (714) 545-7667  
E-mail: [sosi@gnkauto.com](mailto:sosi@gnkauto.com)

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7. Address of the place where the vehicles are modified for compliance:  
G&K Automotive Conversion, Inc  
2530 South Birch Street  
Santa Ana, CA 92707

Mr. George Gemayel  
President  
G&K Auto Conversions, Inc.

TEL: 714-545-9503  
FAX: 714-545-7667

8. Projected vehicle sales for this engine family:  
2

9. Total projected sales for all other engine families already certified by G&K Auto Conversions, Inc. so far this model year, including all LDV, LDT, and HD engines.

1

10. Total sales included under 8 and 9 above (should be less than 10,000):

3

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## IV. Vehicle Information:

1. Company name of the original manufacturer:

MERCEDES BENZ

2. Original carline name:

G650 MAYBACH

3. Country in which the vehicles are originally manufactured:

GERMANY

4. Country in which the vehicles are being modified prior to importation:

None

5. Country from which the vehicles are imported:

GERMANY

6. Original production year or production period of the original vehicle:

2018

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## V. Certificate Information

### 1. Corporate name to be printed on the certificate of conformity:

G&K Auto Conversions, Inc.

### 2. Address to which the certificate should be mailed:

2530 South Birch Street  
Santa Ana, CA 92707

### 3. Models to be listed on the certificate of conformity:

G650 MAYBACH

### 4. Standardized Engine Family name:

LG1XT06.0MBZ

### 5. Standardized Evaporative Family name:

LG1XR0170LNF

# G&K Automotive Conversion, Inc.

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## VI. Vehicle Technical Description

A. ENGINE FAMILY LG1XT06.0MBZ  
EVAPORATIVE FAMILY LG1XR0170LNF

B. Vehicle Configuration: One (1)

1. Basic Engine: Four Stroke spark Ignited, water cooled.

2. Engine code: M277-60TC

3. Inertia Weight Class: 6000

4. Transmission class and configuration: Manual 7 gears

5. Axle Ratio: 3.6

6. Tires: 295/45R20

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- C. Equivalent test weight for each vehicle configuration: 6000
- D. Dynamometer road-load horsepower setting for each vehicle configuration: OEM
- E. Engine combustion cycle: Otto Cycle
- F. Engine cooling mechanism: N/A
- G. Number of engine cylinders: 12
- H. Engine displacement: 5980 cc
- J. Fuel system type: Gasoline Direct Injection
- K. Number and type of catalytic converters: 2  
Unheated metal monolith  
Ceramic Underbody  
Catalyst
- L. Method of air aspiration: Normally Aspirated
- M. Thermal Reactor Characteristics: None
- N. Special Equipment:
1. Turbocharger: none
  2. Intercooler: None

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3. Detonation Sensor: None

4. Shift Indicator Light: None

5. Multi-mode Transmission: None

- O. List the part names and part numbers of any engine, exhaust, and evaporative emission related components installed on the vehicle:

List of OEM parts and part numbers:

redacted

List of parts installed or modified by G&K:

redacted

- P. List the part names and the part numbers of any engine, exhaust, and evaporative emission related components removed from the vehicle during modification, and state the reason for removal.

Components removed were:

redacted

## VII. Emission Control Information

A. Descriptions of all emissions related components are outlined in Appendix A.

# G&K Automotive Conversion, Inc.

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## VIII. Durability Information

### A. Deterioration Factors

EPA provided multiplicative deterioration factors are being utilized for, this light duty certification

HC:	1.14	HC:	1.37
CO:	1.22 <b><u>50K</u></b>	CO:	1.62 <b><u>120K</u></b>
NOx:	1.27	NOx:	1.73
EVAP:	N/A	EVAP:	0.4 Additive

## VIII. Emission Test Results:

### A. Manufacture Testing:

1. Name of Test Laboratory:  
C.E.E., LLC
2. Test Laboratory address  
C.E.E., LLC  
2530 South Birch Street  
Santa Ana, CA 92707
3. Name of laboratory supervisor and telephone number:  
Mr. George Gemayel  
714-545-9822

4. Testing Information:

Please see following pages.

## VIII.

# **G&K Automotive Conversion, Inc.**

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## **TEST DATA**

Appendix B contains the emissions testing "summary sheets".

# **G&K Automotive Conversion, Inc.**

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## **X. STATEMENTS**

### 1. Compliance statements

A. Testing Conformance

B. Adjustable Parameters

C. Defeat Devices

D. Unreasonable Risks

E. High Altitude Compliance

1. High altitude compensation

F. Not Applicable

G. Sealed Parameters

H. Spare Parts

### 2. **Cold Co** Compliance

### 3. **SFTP** Compliance

### 4. **Spit Back** Compliance

### 5. **ORVR** Compliance

### 6. **OBD-II** Compliance

### 7. **Di Bernardi**

# **G&K Automotive Conversion, Inc.**

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## **A. TESTING CONFORMANCE:**

The vehicles described herein have been tested in accordance with:

Subpart A.

Subparts B

Of part 86, title 40 United States Code of Federal Regulations, and on the basis of those tests are in compliance with that subpart. All of the data and records required by that subpart are on file and are available for inspection by the EPA Administrator. We project the total U.S. sales of vehicles (engines) subject to this subpart to be fewer than 10,000 units.

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## **B. ADJUSTABLE PARAMETERS**

G&K Auto Conversions, Inc. has satisfied the requirements of 40 CFR 86.085-22 (e) in that, the limits, stops, or other means used to inhibit adjustment have been designed to accomplish their intended purpose based on good engineering practice and past experience

Signature



Certification representative  
G&K Auto Conversion, Inc.

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## **C. DEFEAT DEVICES**

The vehicles described in this application for certification are not equipped with auxiliary emission control devices which can be classified as defeat device as defined in 40 CFR 86.082-2. The limits, stops, and seals (or other means used to inhibit adjustment) have been designed to accomplish their intended purpose based on good engineering judgment and past experience.

Signature



Certification Representative  
G&K Auto Conversion, Inc.

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## **D. UNREASONABLE RISKS**

G&K Auto Conversions, Inc. states that any element of design, system or emissions control device installed on or incorporated in our vehicles for the purpose of complying with standards prescribed under section 202 of the Clean Air Act, will not, to the best of our information and belief, cause the emission into the ambient air of pollutants in the operation of our motor vehicles which cause or contribute to an unreasonable risk to the public health or welfare except as specifically permitted by the standards prescribed under section 202 of the Clean Air Act. Any element of design, system, or emissions control device installed on or incorporated in our vehicles, for the purpose of complying with standards prescribed under section 202 of the Clean Air Act, will not to the best of our information and belief, cause or contribute to an unreasonable risk to public safety. The term "Pollutant" means:

1. Diesel Particulates
2. Nickel
3. MMT Combustion Products
4. Ammonia
5. Sulfates
6. Hydrogen Sulfide
7. Hydrogen Cyanide
8. Ruthenium Combustion Products
9. Nitrosamines

Or any other pollutant that we have identified, which can reasonably be expected to be emitted from these vehicles.

Signature



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## **E. HIGH ALTITUDE COMPLIANCE**

Based on our engineering evaluation the light-duty vehicles described in this application comply with emissions standards at high altitude unless exempt under 40 CFR 86.090 (h)

Signature



Certification Representative  
G&K Auto Conversion, Inc.

### **(1) High Altitude Compensation**

When the vehicle is driven into high altitude conditions, the engine management computer automatically makes the appropriate fuel and ignition timing changes to assure proper drivability and emissions. The engines mass air flow sensor sends the ECU corrected signals based on air density and volumetric conditions.

Signature



Certification representative  
G&K Auto Conversion, Inc.

## **F. NOT APPLICABLE**

# **G&K Automotive Conversion, Inc.**

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## **G. SEALED PERAMITERS**

1. All emissions related components have been designed to be non adjustable and or factory sealed to prevent tampering.

## **H. SPARE PARTS AND MAINTENANCE**

G&K Auto Conversions, Inc. states that a list of emission and emission-related service parts, including part numbers and sources of parts, will be provided to the vehicle owner. In addition, service facilities and emissions-related repair parts will be conveniently available.

Signature



Certification representative  
G&K Auto Conversion, Inc.

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## **COLD-CO-COMPLIANCE STATEMENT**

**All** vehicles belonging to engine family: LG1XT06.0MBZ meet applicable Cold CO emissions standards. This statement is provided in lieu of actual emissions testing.

Signature

A handwritten signature in blue ink, appearing to read "SB mini", is written below the "Signature" label.

Certification representative  
G&K Auto Conversion, Inc.

# **G&K Automotive Conversion, Inc.**

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## **SFTP COMPLIANCE STATEMENT**

All vehicles belonging to engine family: LG1XT06.0MBZ meet applicable SFTP emissions standards.

Signature

A handwritten signature in blue ink, appearing to read "SB mini", is positioned below the "Signature" label.

Certification representative  
G&K Auto Conversion, Inc.

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## **Refueling Spit back Compliance**

All vehicles belonging to Evaporative/Refueling Family-LG1XR0170LNF, LMBXR0170LNS by design inherently meet the refueling spit back requirements and are identical to those found on MERCEDES BENZ Evaporative/refueling Family: LMBXR0170LNF

Signature

A handwritten signature in blue ink, appearing to read "SB mini", is written below the "Signature" label.

Certification representative  
G&K Auto Conversion, Inc.

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## **5. O.R.V.R.**

### **COMPLIANCE AND SAFETY STATEMENT**

Vehicles belonging to evaporative / refueling family LG1XR0170LNF are identical to those certified by MERCEDES BENZ as evaporative / refueling family LMBXR0170LNF Each vehicle is reviewed by G&K Auto Conversions, Inc. All parts necessary to bring the vehicle into compliance are only original equipment parts supplied by the vehicle manufacturers' dealer parts network. All parts are installed by qualified technicians using installation guidance data (wiring diagrams and component parts locations) supplied by the original manufacturer. All safety systems designed to prevent static discharge of electricity during the refueling process are intact. ALL VEHICLES ARE TESTED TO ASSURE CONTINUITY BETWEEN THE REFUELING NOZZLE AND THE VEHICLE CHASSIS as a final safety check. A copy of the USA owner's manual is supplied at the time of delivery. There have been no in-use problems for this vehicle.

Signature



Certification representative  
G&K Auto Conversion, Inc.

# **G&K Automotive Conversion, Inc.**

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## **6. OBD COMPLIANCE STATEMENT**

**All** vehicles belonging to Engine Family: LG1XT06.0MBZ meet all applicable OBD requirements for model year 2018 and are identical to those certified by MERCEDES BENZ as Engine Family: LMBXJ06.0U2A. Please see letter in Appendix C.

Signature

A handwritten signature in blue ink, appearing to read "SB mini".

Certification representative  
G&K Auto Conversion, Inc.

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## **Compliance with Reduced testing provisions of 40 CFR 85.1515 (a) (1) and (2)**

G&K Auto Conversions, Inc. is using alternative eligibility procedures to obtain a certificate of conformity. As per the requirements outlined in the per 40 CFR 85.1515 (a)(1) and (2). G&K Auto Conversions submits the following information.

**Engine Family:** LG1XT06.0MBZ

**Evaporation / Refueling Family:** LG1XR0170LNF

**Make:** MERCEDES BENZ

**Carline:** G650 MAYBACH

All vehicles belonging to the above mentioned Engine and Evaporative/Refueling families are being imported for private individual use and are not for commercial resale.

All emissions and Evaporative Refueling systems and control devices will be installed using OEM parts certified by qualified technicians and are fully functional.

The OEM manufacturer has a valid certificate of conformity covering the vehicles built with these OEM components. Modified vehicles are fully compliant with all emissions standards and requirements applicable to the above referenced Engine and Evaporative families. Please see attached test data summary sheets.

All vehicles have the OBD-II diagnostic systems installed (if required) are fully functional and have been tested to verify the systems ability to detect and report faults, set codes and turn on the CHECK ENGINE light. After sufficient prep driving G&K Auto Conversions has verified the systems OBD-II readiness codes are set and OBD system did not display any malfunctions.

No more than 300 vehicles will be modified for this model year using these special compliance demonstration procedures.

Signature



Certification representative  
G&K Auto Conversion, Inc.

# G&K Automotive Conversion, Inc.

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## XI. Test Vehicle Selection

### A. Emissions - Data Vehicle

1. G&K Auto Conversions, Inc. has selected the test vehicle based on the criteria as specified in 40 CFR 86.092-14 (c) (7) (i) (A) (1).

2. Tabulate the vehicle parameters subject to the selection criteria.

a. Vehicle Weight: (including options)

Model	Weight (lbs)
-------	--------------

G650 MAYBACH	6,000 lbs
--------------	-----------

### FROM THE HEAVIEST VEHICLE ABOVE

LARGEST FRONTAL AREA:	G650
-----------------------	------

LARGEST DISPLACEMENT:	G650
-----------------------	------

HIGHEST NUMERICAL AXLE RATIO WITH THE LARGEST TIRES:	G650
---	------

MAXIMUM FUEL FLOW CALIBRATION:	G650
--------------------------------	------

E.D.V. SELECTION:	G650
-------------------	------

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A. G650 MAYBACH, S600 MAYBACH was tested as the representative EDV for this engine family.

LOADED VEHICLE WEIGHT	7,050 lbs
-----------------------	-----------

ETW:	6000 lbs
------	----------

IWC:	6000 lbs
------	----------

## B. ROAD-LOAD HORSEPOWER

Vehicle road-load horsepower determination was based on the coast down method using CHEVROLET Calculations and including 10% for air conditioning. The front Grill, spoilers, bumpers, and mirrors all comply with the United States versions of these vehicles, certified by the original manufacturers.

MODEL	COASTDOWN HP
-------	--------------

G650 MAYBACH	OEM
--------------	-----

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## **XII. MAINTENANCE**

### **A. MAINTENANCE SCHEDULE**

The maintenance would be the same as the US certified MERCEDES BENZ G650. Please see the next page for the maintenance schedule.

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## **B. MAINTENANCE INSTRUCTIONS:**

The owner of this vehicle should follow the maintenance schedule as outlined on the previous maintenance summary charts. The maintenance may be performed by a mechanic chosen by the owner. It is not necessary to have the maintenance performed at an approved facility. The maintenance to be performed and the intervals necessary are explained in simple language in the maintenance charts shown previously. This includes simple changes of engine and drive train lubricants, spark plugs and filters, accessory drive belts, lubrication of engine control linkages, and tightening of exhaust flange bolts. It is not necessary for the owner to provide any written documentation to prove compliance with the maintenance guidelines, but it is suggested that records be maintained.

For further information concerning maintenance guidelines and instructions:

G&K Auto Conversion, Inc.  
2530 South Birch Street  
Santa Ana, CA 92707

Contact person: Ms. Sosi Bardakjian

# G&K Automotive Conversion, Inc.

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## XIII LABELS

A. The under hood label is self-adhesive and is affixed to the chassis.  
The material used is ii 86.088-35.

DISPLACEMENT	5980 CC
ENGINE FAMILY	LG1XT06.0MBZ
EVAPORATIVE FAMILY	LG1XR0170LNF
EVAPORATIVE FAMILY	LG1XR0170LNS
IGN. TIMING	Electronic
IDLE RPM	Electronic
TRANSMISSION	Automatic L-7, L-5
MODEL YEAR	2018

C. "Unleaded Gasoline Only" label which will be mounted to the fuel tank filler inlet.

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- XIV. CONFIDENTIAL MATERIAL  
(Ref. Advisory circular no. 93, attachment B)

Information contained in this FOIA version of the application is not considered confidential.

# **G&K Automotive Conversion, Inc.**

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## APPENDIX A EMISSION CONTROL INFORMATION

G650

SFI / 2TC / 2CAC / AIR / 2WR HO2S 2HO2S / 2TWC

# **G&K Automotive Conversion, Inc.**

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## APPENDIX B EMISSION TEST RESULTS

# G&K Automotive Conversion, Inc.

2530 South Birch Street Santa Ana, CA 92707

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## EPA - ICI SUMMARY SHEET

TEST GROUP: LG1XT06.0MBZ

### Independent Commercial Importer:

Summary Sheet #:

Date:

### G&K Automotive Conversions Inc.

251LDV01

07/18/19

### Certificate Information

Certificate Model Year:

2020

Original Production Year:

2018

Original Manufacturer Name:

MERCEDES BENZ

Carlines Covered:

G650 MAYBACH

### Durability Information

Durability Group Name:

LG1XGPGNNTR2

Durability Group Description:

Otto Cycle - Four Stroke - water cooled -  
piston-premium gasoline – direct gasoline injection -  
monolith- Pd+Pd/Rh TWC

Source of Deterioration Factors:

EPA assigned Deterioration factors 50K/100K DFs

Durability Group Comments:

### Test Group Information

Test Group Name:

LG1XT06.0MBZ

Test Group Description:

6.0 LITER V12

OBD Type:

Federal and California OBD II

Method of Aspiration:

Normally aspirated

Valves Per Cylinder:

2

Applicable Exhaust Standards:

Bin 5

Test Group Comments:

All vehicles in this test group will be modified to U.S. certified specifications: Ref - Engine Family Name: LG1XT06.0MBZ

### Evaporative/Refueling Family Name(s)

Applicable Evaporative Standards:

LG1XR0170LNF

Evap / Refueling Family Description:

Federal and California Tier 2

Evap / Refueling Family Comments:

170gr carbon canister

All vehicles in this evaporative refueling family will be modified to U.S. certified specifications: Ref - Evaporative Family Name:

LG1XR0170LNF

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## EPA - ICI SUMMARY SHEET

TEST GROUP: LG1XT06.0MBZ

### Test Vehicle Information

Vehicle Identification # : WDB4632741X283828  
 Vehicle Configuration # : 1  
 Test Vehicle Carline Name: MERCEDES BENZ  
 Displacement of Test Vehicle: 6.0 L  
 Rated Horsepower of Test Vehicle: 621  
 Emissions Related Components: SFI / 2TC / 2CAC / AIR / 2WR HO2S 2HO2S / 2TWC  
 3-way catalyst  
 Miles on Emissions Related Components: 4262  
 Transmission Type: A7  
 Engine Code: M277-60TC  
 Axle Ratio: 3.6  
 Tires: 295/45R20

### Test data and Compliance with emissions Standards

Name and Location of Test Laboratory: C.E.E. LLC, 2530 S. Birch Street, Santa Ana, CA 92707  
 Dynamometer Equivalent Test Weight: 6000  
 Dynamometer Horsepower (48"): -  
 Preload Canister FTP TEST? (Y or N): NO ICI Exemption under EPA Guidance letter to Peter Di Bernardi dated 4/14/1999  
 Test Fuel: EPA unleaded gasoline

Type of Test	Odometer/ Miles	Test Date	Emis- sions	Test Results	Useful Life / M	DF	Cert Level	Emissions Standard	bin	Pass Fail	Comments
FTP (CITY) TEST	4262	07/18/19	NMOG	0.045	50K	1.14	0.051	0.075	5	pass	
			NMOG	0.045	120K	1.37	0.062	0.090	5	pass	
			CO	0.237	50K	1.22	0.289	3.4	5	pass	
			CO	0.237	120K	1.62	0.384	4.2	5	pass	
			NOX	0.027	50K	1.27	0.034	0.05	5	pass	
			NOX	0.027	120K	1.73	0.047	0.07	5	pass	
			MPG	10.990							
Tier											
Evaporative test (grams/per test)			HC	0.541	120K	0.00	0.541	0.90 (3 day)	2	pass	
Highway Test		07/22/19	MPG	16.780			COMBINED MPG=		14		

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APPENDIX C

OBD LETTER

# G&K Automotive Conversion, Inc.

2530 South Birch Street Santa Ana, CA 92707

Phone (714) 545-9503 FAX (714) 545-7667

January 27, 2020

Dave Good  
US EPA  
Certification & Compliance Division  
2565 Plymouth Road  
Ann Arbor, MI 48105

Mr. Good,

G & K Automotive Conversion, Inc. is requesting prior approval of the OBD system to be used for certification of Model Year 2018 MERCEDEZ BENZ MAYBACH G650, Engine Family: LG1XT06.0MBZ. The system being utilized for this certification is identical to that found on the previously certified 2018 G65 Engine Family: LMBXJ06.0U2A.

Thanks



Sosi Bardakjian  
G & K Automotive Conversion, Inc.  
Phone (714) 545-9503 Ext 222  
Fax (714) 545-7667

## OBD COMPLIANCE STATEMENT

All vehicles belonging to Engine Family: LG1XT06.0MBZ meet all applicable OBD requirements for model year 2018 and are identical to those certified by MERCEDES BENZ as Engine Family: LMBXJ06.0U2A.

ENGINE FAMILY: LG1XT06.0MBZ  
EVAPORATIVE FAMILY: LG1XR0170LNF

PART	PART NUMBER	
CATALYTIC CONVERTER	A4634902002	RIGHT
CATALYTIC CONVERTER	A4634901902	LEFT
O2 SENSOR X2	0085424418	FRONT
O2 SENSOR X2	0095428018	REAR
ECU	A2789001200	
CANISTER	A4634704201	
FUEL TANK	A4634702200	

# **G&K Automotive Conversion, Inc.**

2530 South Birch Street Santa Ana, CA 92707

Phone (714) 545-9503 FAX (714) 545-7667

FEES PAID

## **Tracking Information**

Pay.gov Tracking ID: 26N593CU

Agency Tracking ID: 75939362312

Form Name: EPA MVECP Fee Filing Form (for electronic payments only)

Application Name: Motor Vehicle and Engine Compliance Program Fees

## **Payment Information**

Payment Type: Debit or credit card

Payment Amount: \$5,000.00

Transaction Date: 01/28/2020 03:16:12 PM EST

Payment Date: 01/28/2020

Engine Family: LG1XT06.0MBZ

ICI VIN Number: **Ex. 6 (PII)**

Process Code: New

PLUS \$3,000.00 TRANSFER FROM 2019 TO 2020

# G&K Automotive Conversion, Inc.

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LABEL

MODIFIER'S NAME, ADDRESS, AND TELEPHONE NUMBER:		(714) 545-9503	
G & K 2530 S. BIRCH STREET SANTA ANA, CA, 92707 MFG #251			
MODIFIER'S CALIFORNIA AUTOMOTIVE REPAIR DEALER REGISTRATION			
NUMBER:	ARD204045	DATE MODIFICATION COMPLETED:	2019
EMISSION CONTROL INFORMATION			
MFD. BY:	MERCEDES BENZ	VIN:	
ENGINE FAMILY:	LG1XT06.0MBZ	DISPLACEMENT:	6.0L
EVAPORATIVE FAMILY:	LG1XR0170LNF		
EXHAUST EMISSION CONTROL SYSTEM:	SFI/2TC/2CAC/AIR/2WR HO2S 2HO2S/2TWC		
ENGINE TUNE UP SPECIFICATION: This vehicle is equipped with electronic engine control system, engine idle speed, idle mixture and ignition timing are not adjustable- Factory preset.			
This vehicle or engine is warranted for five years or 50,000 miles from the date of release to the owner, whichever comes first.			
THIS VEHICLE ORIGINALLY MANUFACTURED IN 2018			
THIS VEHICLE CONFORMS TO U.S. EPA EMISSION CONTROL REGULATIONS APPLICABLE TO (2020) MODEL YEAR PASSENGER CARS			

# G&K Automotive Conversion, Inc.

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## WARRANTY

### LIMITED WARRANTY

LIMITED WARRANTY NUMBER

W 002160

VEHICLE OWNER	LIMITED WARRANTY INFORMATION
Name _____	Warranty Date _____
Address _____	Terms Part 1: 8 Years / 80,000
City, State, Zip _____	Part 2: 5 Years / 50,000
Telephone No. _____	Part 3: 2 Years / 24,000

WARRANTOR(ICI)	VEHICLE INFORMATION
Name _____	VIN _____
Address _____	Year _____
City, State, Zip _____	Make _____
Telephone No. _____	Model _____
	Mileage _____

**PART 1: EMISSION CONTROL SYSTEM DEFECT LIMITED WARRANTY FOR 8 YEARS / 80,000 MILES**

For the term of 8 years from the Limited Warranty Effective Date or 80,000 miles in addition to the mileage on the original odometer as of the Limited Warranty Effective Date (whichever occurs first), the ICI (Warrantor) warrants to the vehicle owner and each subsequent purchaser during the term of this Limited Warranty that the Engine installed on the above-referenced vehicle has been equipped so as to conform on the Limited Warranty Effective Date with all U.S. emissions standards applicable on the Limited Warranty Effective Date and that the parts listed are free from defects in materials or workmanship which cause it not to meet those standards. The ICI (Warrantor), pursuant to this Limited Warranty, will pay for 100% of the Warranted Parts and 100% of the labor charges to repair or replace the Warranted Parts that fail during the Limited Warranty Term. Failures, other than those resulting from defects in material or workmanship, which arise solely as a result of owner abuse and/or lack of proper maintenance are not covered by this Limited Warranty.

**DESCRIPTION OF PRIMARY EMISSION CONTROL SYSTEM DEFECT WARRANTED PARTS**

WARRANTED PART	MANUFACTURER	PART NUMBER
ENGINE CONTROL MODULE/		
ONBOARD DIAGNOSTIC DEVICE		
CATALYTIC CONVERTER		

**PART 2: EMISSION CONTROL SYSTEM DEFECT LIMITED WARRANTY FOR 5 YEARS / 50,000 MILES**

For the term of 5 years from the Limited Warranty Effective Date or 50,000 miles in addition to the mileage on the original odometer as of the Limited Warranty Effective Date (whichever occurs first), the ICI (Warrantor) warrants to the vehicle owner and each subsequent purchaser during the term of this Limited Warranty that the Engine installed on the above-referenced vehicle has been equipped so as to conform on the Limited Warranty Effective Date with all U.S. emissions standards applicable on the Limited Warranty Effective Date and that the parts listed are free from defects in materials or workmanship which cause it not to meet those standards. The ICI (Warrantor), pursuant to this Limited Warranty, will pay for 100% of the Warranted Parts and 100% of the labor charges to repair or replace the Warranted Parts that fail during the Limited Warranty Term. Failures, other than those resulting from defects in material or workmanship, which arise solely as a result of owner abuse and/or lack of proper maintenance are not covered by this Limited Warranty.

**DESCRIPTION OF PRIMARY EMISSION CONTROL SYSTEM DEFECT WARRANTED PARTS**

WARRANTED PART	MANUFACTURER	PART NUMBER
OXYGEN SENSOR		
CHARCOAL CANISTER		
CANISTER CLOSED VALVE		
TANK PRESSURE SENSOR		

**PART 3: DESCRIPTION OF EMISSION CONTROL SYSTEM PERFORMANCE WARRANTED PARTS 2 YEAR / 24,000**

The ICI (Warrantor) warrants that it will remedy any non-conformity in your vehicle which causes it to fail an approved emissions test or if the failure results in the vehicle owner having to bear any penalty such as monetary fines or the denial of the right to use the vehicle, under local, state, or federal law during the first 2 years/24,000 miles (whichever occurs first), from the limited warranty effective date if the vehicle is maintained and operated in accordance with the instructions for proper maintenance or use set forth in the vehicle owner's manual and accompanying maintenance schedule booklet, the separate Warranty Booklet containing all warranties provided with the vehicle and the ICI's maintenance instructions as supplied with the vehicle.

WARRANTED PART	MANUFACTURER	PART NUMBER
FUEL INJECTORS		
MANIFOLD PRESSURE SENSOR		
EXHAUST MANIFOLD		
CRANKSHAFT POSITION SENSOR		
SPARK PLUGS, IGNITION COIL & WIRES		
ENGINE COOLANT TEMP SENSOR		
INTAKE AIR TEMP SENSOR		
FUEL TANK		
PCV VALVE		